Welcome to STN International! Enter x:x

LOGINID:ssspta1619lxw

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

```
Welcome to STN International
NEWS
                  Web Page URLs for STN Seminar Schedule - N. America
NEWS
                  "Ask CAS" for self-help around the clock
NEWS
         Jun 03
                  New e-mail delivery for search results now available
NEWS
          Aug 08 PHARMAMarketLetter (PHARMAML) - new on STN
NEWS
          Aug 19
                  Aquatic Toxicity Information Retrieval (AQUIRE)
                  now available on STN
NEWS
          Aug 26
                  Sequence searching in REGISTRY enhanced
NEWS
      7
          Sep 03
                  JAPIO has been reloaded and enhanced
NEWS
          Sep 16
                  Experimental properties added to the REGISTRY file
NEWS
          Sep 16
                  CA Section Thesaurus available in CAPLUS and CA
NEWS 10
          Oct 01
                  CASREACT Enriched with Reactions from 1907 to 1985
NEWS 11
          Oct 24
                 BEILSTEIN adds new search fields
NEWS 12
          Oct 24
                 Nutraceuticals International (NUTRACEUT) now available on
STN
NEWS 13
         Nov 18
                 DKILIT has been renamed APOLLIT
NEWS 14
         Nov 25
                 More calculated properties added to REGISTRY
NEWS 15
         Dec 04
                  CSA files on STN
NEWS 16
         Dec 17
                  PCTFULL now covers WP/PCT Applications from 1978 to date
                  TOXCENTER enhanced with additional content
NEWS · 17
         Dec 17
NEWS 18
         Dec 17
                  Adis Clinical Trials Insight now available on STN
                  Simultaneous left and right truncation added to COMPENDEX,
NEWS 19
         Jan 29
                  ENERGY, INSPEC
                  CANCERLIT is no longer being updated
NEWS 20
         Feb 13
NEWS 21
         Feb 24
                 METADEX enhancements
NEWS 22
         Feb 24
                 PCTGEN now available on STN
NEWS 23
         Feb 24
                 TEMA now available on STN
NEWS 24
         Feb 26
                 NTIS now allows simultaneous left and right truncation
NEWS 25
         Feb 26
                 PCTFULL now contains images
NEWS 26
         Mar 04
                 SDI PACKAGE for monthly delivery of multifile SDI results
NEWS 27
         Mar 20
                 EVENTLINE will be removed from STN
NEWS 28
         Mar 24
                 PATDPAFULL now available on STN
NEWS 29
         Mar 24
                 Additional information for trade-named substances without
                  structures available in REGISTRY
NEWS 30
         Apr 11
                 Display formats in DGENE enhanced
NEWS 31
                 MEDLINE Reload
         Apr 14
NEWS 32
         Apr 17
                 Polymer searching in REGISTRY enhanced
NEWS 33
         Jun 13.
                 Indexing from 1947 to 1956 added to records in CA/CAPLUS
NEWS 34
         Apr 21
                 New current-awareness alert (SDI) frequency in
                 WPIDS/WPINDEX/WPIX
NEWS 35
         Apr 28
                 RDISCLOSURE now available on STN
NEWS 36
         May 05
                 Pharmacokinetic information and systematic chemical names
                  added to PHAR
                 MEDLINE file segment of TOXCENTER reloaded
NEWS 37
         May 15
NEWS 38
         May 15
                 Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS 39
         May 16
                 CHEMREACT will be removed from STN
NEWS 40
         May 19
                 Simultaneous left and right truncation added to WSCA
NEWS 41
         May 19
                 RAPRA enhanced with new search field, simultaneous left and
```

right truncation

NEWS 42 Jun 06 Simultaneous left and right truncation added to CBNB NEWS 43 Jun 06 PASCAL enhanced with additional data

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT

MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP), AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003

STN Operating Hours Plus Help Desk Availability NEWS HOURS

NEWS INTER General Internet Information NEWS LOGIN Welcome Banner and News Items

NEWS PHONE Direct Dial and Telecommunication Network Access to STN

NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

\* \* \* \* \* \* \* \* STN Columbus \* \* \* \*

FILE 'HOME' ENTERED AT 08:09:12 ON 16 JUN 2003

=> fil reg COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION 0.21 0.21

FULL ESTIMATED COST

FILE 'REGISTRY' ENTERED AT 08:09:20 ON 16 JUN 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 13 JUN 2003 HIGHEST RN 530739-23-2 DICTIONARY FILE UPDATES: 13 JUN 2003 HIGHEST RN 530739-23-2

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> e c16eo6/cn 1

E1 C16B/CN E2 1 C16E04/CN E3 1 --> C16E06/CN

E4 C16H33-Q3CNQ/CN 1

C16K/CN

```
E6
                                                  C16N11/CN
E7
                                  1
                                                  C16N12/CN
E8
                                  1
                                                  C16N13/CN
E9
                                  1
                                                  C16N14/CN
E10
                                  1
                                                  C16N15/CN
E11
                                  1
                                                  C16N8/CN
                                                  C16ORF3 LARGE PROTEIN (HUMAN GENE C16ORF3 REDUCED)/CN
E12
=> s e3
                                  1 C16E06/CN
=> d
L1
             ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS
RN
             5168-91-2 REGISTRY
CN
             3,6,9,12,15,18-Hexaoxatetratriacontan-1-ol (6CI, 7CI, 8CI, 9CI)
INDEX
            NAME)
OTHER NAMES:
CN
             C16E06
            Ethanol,
2-[2-[2-[2-[2-[2-(hexadecyloxy)ethoxy]ethoxy]ethoxy]ethoxy]
CN
             Hexa(oxyethylene) monohexadecyl ether
CN
             Hexaethylene glycol hexadecyl ether
             Hexaethylene glycol mono n-hexadecyl ether
CN
CN
             Hexaethylene glycol monocetyl ether
CN
             Hexaethylene glycol monohexadecyl ether
FS
             3D CONCORD
MF
             C28 H58 O7
LC
             STN Files:
                                            BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CSCHEM,
                  DETHERM*, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPATFULL
                        (*File contains numerically searchable property data)
                                                                                                                                                          PAGE 1-A
       HO CH2 CH2 O CH2 CH2 O CH2 CH2 O CH2 CH2 O CH2 O
                                                                                                                                                          PAGE 1-B
-CH_2-CH_2-O-(CH_2)_{15}-Me
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**
                                     99 REFERENCES IN FILE CA (1957 TO DATE)
                                     99 REFERENCES IN FILE CAPLUS (1957 TO DATE)
                                       6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)
=> log y
COST IN U.S. DOLLARS
                                                                                                                                 SINCE FILE
                                                                                                                                                                          TOTAL
                                                                                                                                              ENTRY
                                                                                                                                                                     SESSION
FULL ESTIMATED COST
                                                                                                                                                6.30
                                                                                                                                                                             6.51
STN INTERNATIONAL LOGOFF AT 08:09:45 ON 16 JUN 2003
```

Welcome to STN International! Enter x:x

LOGINID:ssspta1619lxw

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

```
Welcome to STN International
NEWS
                 Web Page URLs for STN Seminar Schedule - N. America
NEWS
                 "Ask CAS" for self-help around the clock
NEWS
         Jun 03
                 New e-mail delivery for search results now available
NEWS
         Aug 08
                 PHARMAMarketLetter(PHARMAML) - new on STN
NEWS
         Aug 19
                 Aquatic Toxicity Information Retrieval (AQUIRE)
                 now available on STN
NEWS
         Aug 26
                 Sequence searching in REGISTRY enhanced
NEWS
         Sep 03
                 JAPIO has been reloaded and enhanced
NEWS
         Sep 16
                 Experimental properties added to the REGISTRY file
NEWS
                 CA Section Thesaurus available in CAPLUS and CA
         Sep 16
                 CASREACT Enriched with Reactions from 1907 to 1985
NEWS 10
         Oct 01
NEWS 11
                 BEILSTEIN adds new search fields
         Oct 24
NEWS 12
         Oct 24
                 Nutraceuticals International (NUTRACEUT) now available on
NEWS 13
                 DKILIT has been renamed APOLLIT
         Nov 18
NEWS 14
         Nov 25
                 More calculated properties added to REGISTRY
NEWS 15
         Dec 04
                 CSA files on STN
NEWS 16
         Dec 17
                 PCTFULL now covers WP/PCT Applications from 1978 to date
NEWS 17
         Dec 17
                 TOXCENTER enhanced with additional content
NEWS 18
         Dec 17
                 Adis Clinical Trials Insight now available on STN
NEWS 19
         Jan 29
                 Simultaneous left and right truncation added to COMPENDEX,
                 ENERGY, INSPEC
NEWS 20
         Feb 13
                 CANCERLIT is no longer being updated
NEWS 21
         Feb 24
                 METADEX enhancements
NEWS 22
         Feb 24
                 PCTGEN now available on STN
                 TEMA now available on STN
NEWS 23
         Feb 24
NEWS 24
         Feb 26
                 NTIS now allows simultaneous left and right truncation
NEWS 25
         Feb 26
                 PCTFULL now contains images
NEWS 26
        Mar 04
                 SDI PACKAGE for monthly delivery of multifile SDI results
NEWS 27
         Mar 20
                 EVENTLINE will be removed from STN
NEWS 28
         Mar 24
                 PATDPAFULL now available on STN
NEWS 29
         Mar 24
                 Additional information for trade-named substances without
                 structures available in REGISTRY
                 Display formats in DGENE enhanced
NEWS 30
         Apr 11
NEWS 31
         Apr 14
                 MEDLINE Reload
NEWS 32
         Apr 17
                 Polymer searching in REGISTRY enhanced
NEWS 33
         Jun 13
                 Indexing from 1947 to 1956 added to records in CA/CAPLUS
NEWS 34
         Apr 21
                 New current-awareness alert (SDI) frequency in
                 WPIDS/WPINDEX/WPIX
NEWS 35
                 RDISCLOSURE now available on STN
         Apr 28
NEWS 36
        May 05
                 Pharmacokinetic information and systematic chemical names
                 added to PHAR
                 MEDLINE file segment of TOXCENTER reloaded
NEWS 37
         May 15
NEWS 38
         May 15
                 Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS 39
         May 16
                 CHEMREACT will be removed from STN
NEWS 40
         May 19
                 Simultaneous left and right truncation added to WSCA
NEWS 41
        May 19
                 RAPRA enhanced with new search field, simultaneous left and
```

right truncation

NEWS 42 Jun 06 Simultaneous left and right truncation added to CBNB

NEWS 43 Jun 06 PASCAL enhanced with additional data

NEWS EXPRESS April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT

MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),

AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003

NEWS HOURS STN Operating Hours Plus Help Desk Availability

NEWS INTER General Internet Information

NEWS LOGIN Welcome Banner and News Items

NEWS PHONE Direct Dial and Telecommunication Network Access to STN

NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that specific topic.

All use of STN is subject to the provisions of the STN Customer agreement. Please note that this agreement limits use to scientific research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

FILE 'HOME' ENTERED AT 08:12:49 ON 16 JUN 2003

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE TOTAL

ENTRY SESSION

FULL ESTIMATED COST

0.21 0.21

FILE 'REGISTRY' ENTERED AT 08:12:57 ON 16 JUN 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 13 JUN 2003 HIGHEST RN 530739-23-2 DICTIONARY FILE UPDATES: 13 JUN 2003 HIGHEST RN 530739-23-2

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details: http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf

=> s c16eo6/cn

L1 1 C16E06/CN

=> fil caplus uspatfull biosis embase medline
COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

4.83 FULL ESTIMATED COST 4.62

FILE 'CAPLUS' ENTERED AT 08:13:20 ON 16 JUN 2003 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'USPATFULL' ENTERED AT 08:13:20 ON 16 JUN 2003 CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'BIOSIS' ENTERED AT 08:13:20 ON 16 JUN 2003 COPYRIGHT (C) 2003 BIOLOGICAL ABSTRACTS INC. (R)

FILE 'EMBASE' ENTERED AT 08:13:20 ON 16 JUN 2003 COPYRIGHT (C) 2003 Elsevier Science B.V. All rights reserved.

FILE 'MEDLINE' ENTERED AT 08:13:20 ON 16 JUN 2003

=> s 11

100 L1.

=> s 12(p)surfactant

15 L2(P) SURFACTANT

=> dup rem 13

PROCESSING COMPLETED FOR L3

15 DUP REM L3 (0 DUPLICATES REMOVED)

=> d ibib

ANSWER 1 OF 15 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2001:170835 CAPLUS

DOCUMENT NUMBER:

134:307479

TITLE:

DNA Capillary Electrophoresis in Entangled Dynamic

Polymers of Surfactant Molecules

AUTHOR(S):

Wei, Wei; Yeung, Edward S.

CORPORATE SOURCE:

Department of Chemistry, Ames Laboratory-USDOE Iowa

State University, Ames, IA, 50011, USA

SOURCE:

Analytical Chemistry (2001), 73(8), 1776-1783 CODEN: ANCHAM; ISSN: 0003-2700

PUBLISHER:

American Chemical Society

DOCUMENT TYPE:

Journal

LANGUAGE:

English

REFERENCE COUNT:

50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR

THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

=> d 2-6 ibib

ANSWER 2 OF 15 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 2000:788486 CAPLUS

DOCUMENT NUMBER:

134:106327

TITLE:

Capillary rise of surfactant solutions

AUTHOR (S):

Tiberg, F.; Zhmud, B.; Hallstensson, K.; von Bahr, M.

CORPORATE SOURCE:

Forest Product Section, Institute for Surface

Chemistry, Stockholm, S-114 86, Swed.

SOURCE:

Physical Chemistry Chemical Physics (2000), 2(22),

5189-5196

CODEN: PPCPFQ; ISSN: 1463-9076

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR

THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

## **FORMAT**

L4 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:

1999:90549 CAPLUS

DOCUMENT NUMBER:

130:164988

TITLE:

Marker contained in carbon nano-encapsulate for

detection of fibrin clots and for labeling

macromolecules

INVENTOR(S):

Burch, William Martin; Browitt, Rodney James; Nair,

APPLICATION NO. DATE

RECORD. ALL CITATIONS AVAILABLE IN THE RE

Chenicheri Hariharan; Shats, Elena Alexandra

PATENT ASSIGNEE(S):

The Australian National University, Australia

SOURCE:

PCT Int. Appl., 45 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

KIND DATE

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

```
----- ----
                                                        -----
                                                                                       -----
                                                                                    WO 1997-AU467
          WO 9904826
                                            A1
                                                        19990204
                                                                                                                          19970724
                 W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG
          AU 9735321
                                 A1 19990216
                                                                                       AU 1997-35321
          WO 9904827
                                             A1
                                                       19990204
                                                                                      WO 1998-AU582
                                                                                                                          19980723
                 W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MP, NE, SN, TD, TG
                          CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
                                          A1
          AU 9884259
                                                         19990216
                                                                                    AU 1998-84259
                                                                                                                          19980723
          AU 744489
                                              B2
                                                         20020228
                                                     20000816
          EP 1027080
                                            A1
                                                                                      EP 1998-934690
                                                                                                                          19980723
                  R: AT, BE, CH, DE, FR, GB, IT, LI, NL, SE
                                                                                     JP 2000-503878
          JP 2001510812
                                              T2 20010807
                                                                                                                          19980723
                                                                                 WO 1997-AU467
                                                                                                                A 19970724
PRIORITY APPLN. INFO.:
                                                                                 WO 1998-AU582
                                                                                                                   W 19980723
REFERENCE COUNT:
                                                   6
                                                               THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
```

**FORMAT** 

L4 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1998:605754 CAPLUS

DOCUMENT NUMBER: 129:281407

Flexibility of Charged and Uncharged Polymer-like TITLE:

Micelles

Jerke, Goetz; Pedersen, Jan Skov; Egelhaaf, Stefan AUTHOR (S):

Ulrich; Schurtenberger, Peter

CORPORATE SOURCE: Institut fuer Polymere, ETH Zuerich, Zurich, CH-8092,

Switz.

SOURCE: Langmuir (1998), 14(21), 6013-6024

CODEN: LANGD5; ISSN: 0743-7463

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE COUNT: 74 THERE ARE 74 CITED REFERENCES AVAILABLE FOR

THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

ANSWER 5 OF 15 CAPLUS COPYRIGHT 2003 ACS

1998:357148 CAPLUS ACCESSION NUMBER:

DOCUMENT NUMBER: 129:69117

TITLE: Study of nonionic surfactant polarity by

high-performance liquid chromatography

AUTHOR(S):

Plaza, M.; Pons, R. C.I.D. (C.S.I.C.), Departament Tecnologia de CORPORATE SOURCE:

Tensioactius, c/Jordi Girona 18-26, Barcelona, 08034,

Spain

SOURCE: Colloids and Surfaces, A: Physicochemical and

Engineering Aspects (1998), 137(1-3), 287-293

CODEN: CPEAEH; ISSN: 0927-7757

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR

THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

ANSWER 6 OF 15 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1998:751693 CAPLUS

DOCUMENT NUMBER: 130:115670

TITLE: Studies on UNIQUAC and SAFT equations for nonionic

surfactant solutions

AUTHOR (S): Li, Xiao-Sen; Lu, Jiu-Fang; Li, Yi-Gui; Liu, Jin-Chen

Department of Chemical Engineering, Tsinghua CORPORATE SOURCE: University, Beijing, 100084, Peop. Rep. China

SOURCE: Fluid Phase Equilibria (1998), 153(2), 215-229

CODEN: FPEQDT; ISSN: 0378-3812

PUBLISHER: Elsevier Science B.V.

DOCUMENT TYPE: Journal LANGUAGE: English

REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR

THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

**FORMAT** 

=> d 7 ibib

ANSWER 7 OF 15 CAPLUS COPYRIGHT 2003 ACS ACCESSION NUMBER: 1997:636933 CAPLUS

DOCUMENT NUMBER: 127:323123

Structure of Nonionic Surfactant Layers Adsorbed at TITLE:

the Solid/Liquid Interface on Self-Assembled

Monolayers with Different Surface Functionality: A

Neutron Reflection Study

AUTHOR (S): Thirtle, P. N.; Li, Z. X.; Thomas, R. K.; Rennie, A.

R.; Satija, S. K.; Sung, L. P.

CORPORATE SOURCE: Physical and Theoretical Chemistry Laboratory,

University of Oxford, Oxford, OX1 3QZ, UK

SOURCE: Langmuir (1997), 13(20), 5451-5458

CODEN: LANGD5; ISSN: 0743-7463

PUBLISHER:

American Chemical Society

DOCUMENT TYPE:

Journal

LANGUAGE:

English

=> d 8 ibib

ANSWER 8 OF 15 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:

1998:80323 CAPLUS

DOCUMENT NUMBER:

128:172435

TITLE:

Shear-induced structures in concentrated surfactant

micellar phases

AUTHOR (S):

Penfold, J.; Staples, E.; Tucker, I.; Tiddy, G. J.

Т.;

Lodi, A. Khan

CORPORATE SOURCE:

SOURCE:

ISIS Fac., Rutherford Appleton Lab., Oxon, UK Journal of Applied Crystallography (1997), 30(5, Pt.

2), 744-749

CODEN: JACGAR; ISSN: 0021-8898

PUBLISHER:

Munksgaard International Publishers Ltd. Journal

DOCUMENT TYPE:

English

LANGUAGE: REFERENCE COUNT:

21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR

THIS

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

=> d 8 abs kwic

L4 ANSWER 8 OF 15 CAPLUS COPYRIGHT 2003 ACS

AB Const. and oscillatory Couette shear flow were used in combination with small-angle neutron scattering to observe the hear-induced ordering in concd. surfactant micellar phases. For the lamellar phase of hexaethylene

glycol monohexadecyl ether, C16E6, two distinct lamellae orientations were

identified. At low shear gradients the lamellae are ordered parallel to the flow-vorticity plane, whereas at higher shear gradients the lamellae order parallel to the flow-shear gradient plane, corresponding to a rotation through 90.degree. of the axis of orientation. At intermediate values of const. shear and for oscillatory shear, both lamellae orientations are simultaneously obsd. for the 1st time in a surfactant lamellar phase. for the lamellar phase, a dispersion of the binary surfactant mixts. of dioleyl cationic and 2-Et hexaglycerol monoether surfactants, a high degree of alignment, in the direction parallel to the flow-vorticity plane, is obsd. at zero and low shear. With time, during the application of a shear gradient of 25 s-1, the lamellar phase transforms to a highly ordered soln. of monodisperse multilamellar vesicles.

IT **5168-91-2**, C16E6

RL: PEP (Physical, engineering or chemical process); PRP (Properties);

PROC (Process)

(shear-induced structures in concd. surfactant micellar phases)

=> d 9 ibib abs kwic

ANSWER 9 OF 15 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:

1996:637115 CAPLUS

DOCUMENT NUMBER:

125:339812

TITLE:

Adsorption of Nonionic Surfactants on Silica Sol

Particles: The Effects of Sol Type and Concentration,

Surfactant Type, Concentration, and Temperature Penfold, J.; Staples, E.; Tucker, I.; Cummins, P.

AUTHOR (S): CORPORATE SOURCE:

ISIS Facility, Rutherford Appleton Laboratory,

Chilton/ Didcot/ Oxon, UK

SOURCE:

Journal of Physical Chemistry (1996), 100(46),

18133-18137

CODEN: JPCHAX; ISSN: 0022-3654

PUBLISHER:

American Chemical Society

DOCUMENT TYPE:

Journal

LANGUAGE:

English

Small angle neutron scattering was used to study the nature of the adsorption of the alkyl polyoxyethylene ether (CnEOm) nonionic surfactants

on Ludox silica sols. Variations in the adsorbed layer thickness and

fraction of surfactant in the adsorbed layer with sol type, concn., temp.,

and surfactant type are obsd. In particular, the structure of the adsorbed layer of the C16EO6 and C16EO8 surfactants (for which the bulk micellar phase is rodlike micelles) is similar to that found for C12EO6 and C12EO5 surfactants.

3055-98-9, C12E8 **5168-91-2**, C16E6 7631-86-9, Silica, properties 3055-96-7, C12E6

5698-39-5, C16E8

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)

(SANS study of concn., surfactant type, and temp. effects on nonionic surfactant adsorption on silica sol particles)

=> d 10-15 ibib abs kwic

ANSWER 10 OF 15 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:

1996:311434 CAPLUS

DOCUMENT NUMBER:

124:325896

TITLE:

Normal and Reverse Vesicles with Nonionic Surfactant:

Solvent Diffusion and Permeability

AUTHOR (S):

Olsson, Ulf; Nakamura, Kazuyoshi; Kunieda, Hironobu;

Strey, Reinhard

CORPORATE SOURCE:

Chemical Center, Lund University, Lund, S-221 00,

SOURCE:

Langmuir (1996), 12(12), 3045-3054

CODEN: LANGD5; ISSN: 0743-7463

PUBLISHER:

American Chemical Society

DOCUMENT TYPE:

Journal

English

Normal and reverse vesicle systems with nonionic surfactants were studied.

The solvent self-diffusion coeff. was measured by using the 1H-NMR Fourier

transform pulsed gradient spin-echo technique. In the case of normal vesicles, the H2O solvent exchanges rapidly between the inside and outside

of the vesicles on the exptl. time scale (.apprxeq. 0.1 s). Only an avself-diffusion coeff. can be measured from which the fraction of entrapped

H2O can be detd. In the reverse vesicle case, the authors observe either a fast or a slow exchange, depending on the oil nature and the bilayer compn. In particular, the authors studied a semipermeable membrane system

where with mixed solvent, 1 of the 2 types of solvent mols. exchanges rapidly while the other exchanges slowly on the exptl. time scale. The lifetime of a solvent mol. inside the reverse vesicles depend on the compn. of the mixed reverse bilayers, leading to an obsd. transition from fast to slow exchange conditions when varying the bilayer compn. In the slow exchange case, the self-diffusion coeffs. of solvent mols. on the outside and inside of the vesicles (where the latter reports on the vesicle self-diffusion coeff.) are resolved in principal. From the bimodal type of decay of the spin-echo amplitude, it is also possible to det. directly the fraction of solvent mols. entrapped inside the vesicles.

TT 57-50-1D, esters with fatty acids 110-82-7, Cyclohexane, properties 124-18-5, Decane 151-21-3, SDS, properties 544-76-3, Hexadecane 1450-14-2, Hexamethyldisilane 5168-91-2, C16E6 5274-68-0, C12E4 7732-18-5, Water, properties 25168-73-4D, Sucrose monooctadecanoate, mixt. with sucrose alkanoates 26446-38-8D, Sucrose monohexadecanoate, mixt. with sucrose alkanoates 27216-47-3D, Sucrose monotetradecanoate, mixt. with sucrose alkanoates RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)

(Fourier transform pulsed gradient spin-echo NMR study of normal and reverse nonionic **surfactant** vesicle permeability and solvent self-diffusion)

L4 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1996:153288 CAPLUS

DOCUMENT NUMBER: 124:205629

TITLE: Physical characterization of non-ionic surfactant

layers adsorbed at hydrophilic and hydrophobic solid

surfaces by time-resolved ellipsometry

AUTHOR(S): Tiberg, Fredrik

CORPORATE SOURCE: Physical Chem. 1, Lund Univ., Lund, S-22100, Swed.

SOURCE: Journal of the Chemical Society, Faraday Transactions

(1996), 92(4), 531-8

CODEN: JCFTEV; ISSN: 0956-5000

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal LANGUAGE: English

AB Nonionic surfactant adsorption at hydrophobic and hydrophilic silica surfaces has been studied by time-resolved ellipsometry. Adsorption isotherms obtained for polyethylene glycol monoalkyl ethers (CnEm) at these surfaces are presented together with data on the adsorbed layer thickness and refractive index, giving information about the concomitant evolution of the mol. organization within the adsorbed layers. It is shown that, whereas the surfactants are adsorbed as sub-monolayers or monolayers at hydrophobic surfaces, they form surface micelles or bilayer-type aggregates at hydrophilic silica. The adsorption/desorption kinetics of the surfactants at the different surfaces have also been

investigated. A kinetic model based on the assumption of diffusive transport of surfactants through a stagnant layer, coupled with the idea of a local equil. existing between the adsorbed layer and the soln. in

its

immediate vicinity, is used to interpret the exptl. results. This was found to reproduce quant. the main features of the time dependence obsd. during adsorption and desorption at hydrophilic as well as hydrophobic silica.

3055-95-6, Pentaethylene glycol dodecyl ether 3055-96-7, Hexaethylene glycol dodecyl ether 3055-98-9, Octaethylene glycol dodecyl ether 5157-04-0, Hexaethylene glycol tetradecyl ether 5168-91-2, Hexaethylene glycol hexadecyl ether

RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM

(Technical or engineered material use); PROC (Process); USES (Uses) (nonionic **surfactant** layers adsorbed at hydrophilic and hydrophobic solid surfaces)

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1996:320754 CAPLUS

DOCUMENT NUMBER: 125:42592

TITLE: The effect of shear on the adsorption of non-ionic

surfactants at the liquid-solid interface

AUTHOR(S): Penfold, J.; Staples, E.; Tucker, I.; Fragnetto, G..

CORPORATE SOURCE: ISIS Facility, Rutherford Appleton Laboratory,

Chilton, Didcot, Oxon, UK

SOURCE: Physica B: Condensed Matter (Amsterdam) (1996),

221(1-4), 325-330

CODEN: PHYBE3; ISSN: 0921-4526

PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The structure of surfactant micellar solns. subjected to shear was studied

by neutron reflection (complemented by other scattering methods) to det. the distribution of surfactant in the vicinity of the shear cell wall. The construction of a shear cell for neutron reflectivity measurements is described, and some recent preliminary results on the effect of shear on the adsorption of nonionic surfactant (hexaethylene glycol monohexadecyl ether (C16E6)) at the planar Si/soln. interface are discussed. These results provide direct evidence of shear-induced structures in the vicinity of the cell wall. At a low surfactant concn., ordered layering of the surfactant sepd. by solvent-rich regions, and extending into the bulk soln. is obsd., in addn. to the adsorbed layer on the solid surface. The application of Poiseuille shear flow appears to induce a more ordered and well-defined structure at the interface.

IT **5168-91-2**, C16E6 7440-21-3, Silicon, properties 7631-86-9, Silica, properties

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)

(neutron reflection study of nonionic surfactant soln. interfacial structure at solid wall during shear flow)

L4 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1995:629886 CAPLUS

DOCUMENT NUMBER: 123:12382

TITLE: Polymer-Induced Microstructural Transitions in

Surfactant Solutions

AUTHOR(S): Li, Xiangbing; Lin, Zuchen; Cai, Jim; Scriven, L. E.;

Davis, H. T.

CORPORATE SOURCE: Department of Chemical Engineering and Materials

Science, University of Minnesota, Minneapolis, MN,

55455, USA

SOURCE: Journal of Physical Chemistry (1995), 99(27),

10865-78

а

CODEN: JPCHAX; ISSN: 0022-3654

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

The interactions of nonionic polymers poly(vinyl Me ether) (PVME), poly(propylene oxide) (PPO), poly(acrylic acid) (PAA), and ionic poly(sodium 4-styrenesulfonate) (PSS) with the wormlike micelles in aq. solns. of nonionic hexaethylene glycol monohexadecyl ether (C16E6), pentaethylene glycol monododecyl ether (C12E5), and cationic surfactant cetyltrimethylammonium bromide (CTAB)/sodium salicylate (NaSal) have been investigated by cryo-transmission electron microscopy and shear rheol. All the surfactant solns. were viscous, wormlike micellar solns. in the absence of polymers. The hydrophobic nonionic PPO induced a wormlike micelle to ribbon-shaped discoid micelle transition in C16E6 soln., and there is no appreciable change in C12E5 upon the addn. of PPO and PVME. The results indicate the surfactant-polymer interaction is enhanced with an increase in surfactant alkyl chain length. Both PVME and PPO induced

wormlike-to-spherical micelle transition in the CTAB/NaSal soln. The contrast in the transitions between the C16E6 and CTAB with PPO addn. is due to the difference in the head groups which results in a difference in where the polymer resides in the surfactant aggregates. PSS has little effect on the CiEj systems, and PAA does not destroy the wormlike micelles

of the CiEj before pptn. The effects of nonionic polymer are interpreted in terms of the theory developed by R. Nagarajan (1989).

IT 57-09-0, Cetyltrimethylammonium bromide 3055-95-6, Pentaethylene glycol monododecyl ether 5168-91-2, Hexaethylene glycol monohexadecyl ether

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)

(**surfactant**; polymer-induced microstructural transitions in solns. of)

L4 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1995:568095 CAPLUS

DOCUMENT NUMBER: ·123:65690

TITLE: Visceral leishmaniasis in the BALB/c mouse: a

comparison of the in vivo activity of five nonionic

surfactant vesicle preparations of sodium

stibogluconate

AUTHOR(S): Williams, D. M.; Carter, K. C.; Baillie, A. J.

CORPORATE SOURCE: Dep. Immunol. Pharm. Sci., Univ. Strathclyde,

Glasgow,

G4 ONR, UK

SOURCE: Journal of Drug Targeting (1995), 3(1), 1-7

CODEN: JDTAEH; ISSN: 1061-186X

PUBLISHER: Harwood
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Five nonionic surfactants (Surfactants V-IX) were screened for their ability to produce vesicles for the delivery of sodium stibogluconate. Mean vesicle diam. and antimony content were detd. prior to in vivo assessment of antiparasitic activity in a mouse model of acute visceral leishmaniasis. V/D suspensions (i.e. stibogluconate-loaded vesicles kept

in the hydrating drug soln.) were more effective against spleen, liver and

bone marrow parasites than drug-loaded vesicle suspensions that had unentrapped drug removed. A Surfactant IX V/D suspension was the most active antileishmanial prepn. causing 75 .+-. 10%, 99 .+-. 1% and 38 .+-. 8% suppression of liver, spleen and bone marrow parasite burdens resp. Contrary to previous findings, a redn. in splenic and bone marrow parasite

burdens was achieved using large vesicles (mean diam. >800 nm). The significance of these results is discussed.

IT 5168-91-2, Hexaethylene glycol mono n-hexadecyl ether 5274-61-3 5274-63-5, 3,6,9,12-Tetraoxaoctacosan-1-ol 26855-43-6, Triglycerol monostearate 34424-97-0, Hexaglycerol distearate RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (nonionic surfactant vesicles for sodium stibogluconate

ANSWER 15 OF 15 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1987:202260 CAPLUS

DOCUMENT NUMBER: 106:202260

delivery in leishmaniasis)

TITLE: Interfacial tension of oil-brine systems in the

presence of surfactant and cosurfactant

AUTHOR(S): Ruckenstein, E.; Rao, I. V.

CORPORATE SOURCE: Dep. Chem. Eng., State Univ. New York, Buffalo,

Amherst, NY, 14260, USA

SOURCE: Journal of Colloid and Interface Science (1987),

117(1), 104-19

CODEN: JCISA5; ISSN: 0021-9797

DOCUMENT TYPE: Journal LANGUAGE: English

AB The interfacial tension between bulk oil and brine phases contg. a surfactant and a cosurfactant was calcd. by using a multicomponent adsorption isotherm model that accounts for the different sizes of the solute mols. as well as for the solute-solvent and solute-solute interactions in the surface phase. The presence of appreciable amts. of electrolyte in these systems alters the equil. distribution of a solute between the 2 bulk phases because of the salting-out effect, and the calcns. also account for this effect. The interfacial tension decreases with increasing concn. for both ionic and nonionic surfactants. However, for fixed values of total concns. of surfactant, the interfacial tension is much smaller for nonionic surfactants than for ionic surfactants,

since

the head group is larger in the former case. At fixed values of the surfactant concn., increasing amts. of cosurfactant and salt have the effect of lowering the interfacial tension. Other important parameters studied are the chain length of oil and the relative amts. of water and oil. The calcns. for both ionic and nonionic surfactants indicate that the interfacial tension decreases as the chain length of surfactant increases, while it goes through a min. as a function of cosurfactant chain length.

IT 142-87-0, Sodium decyl sulfate 151-21-3, Sodium dodecyl sulfate, properties 1191-50-0, Sodium tetradecyl sulfate 3055-96-7, Hexaoxyethylene monododecyl ether 5157-04-0 5168-91-2 RL: PRP (Properties)

(surfactant, adsorption of, at oil-brine interface)

Congress of the same